

20

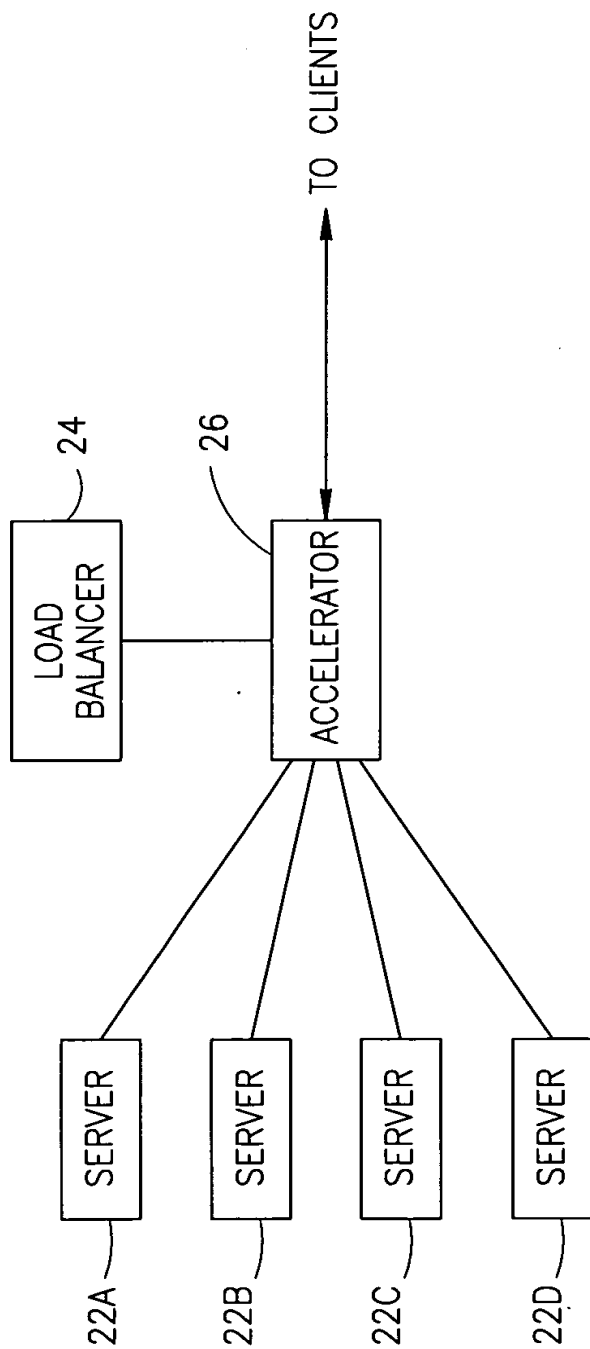


FIG.1

30

32		38		40	
34	36	38			
CLIENT ADDRESS	CLIENT PORT	PROTOCOL	SERVER ADDRESS	SERVER VLAN	

FIG.2

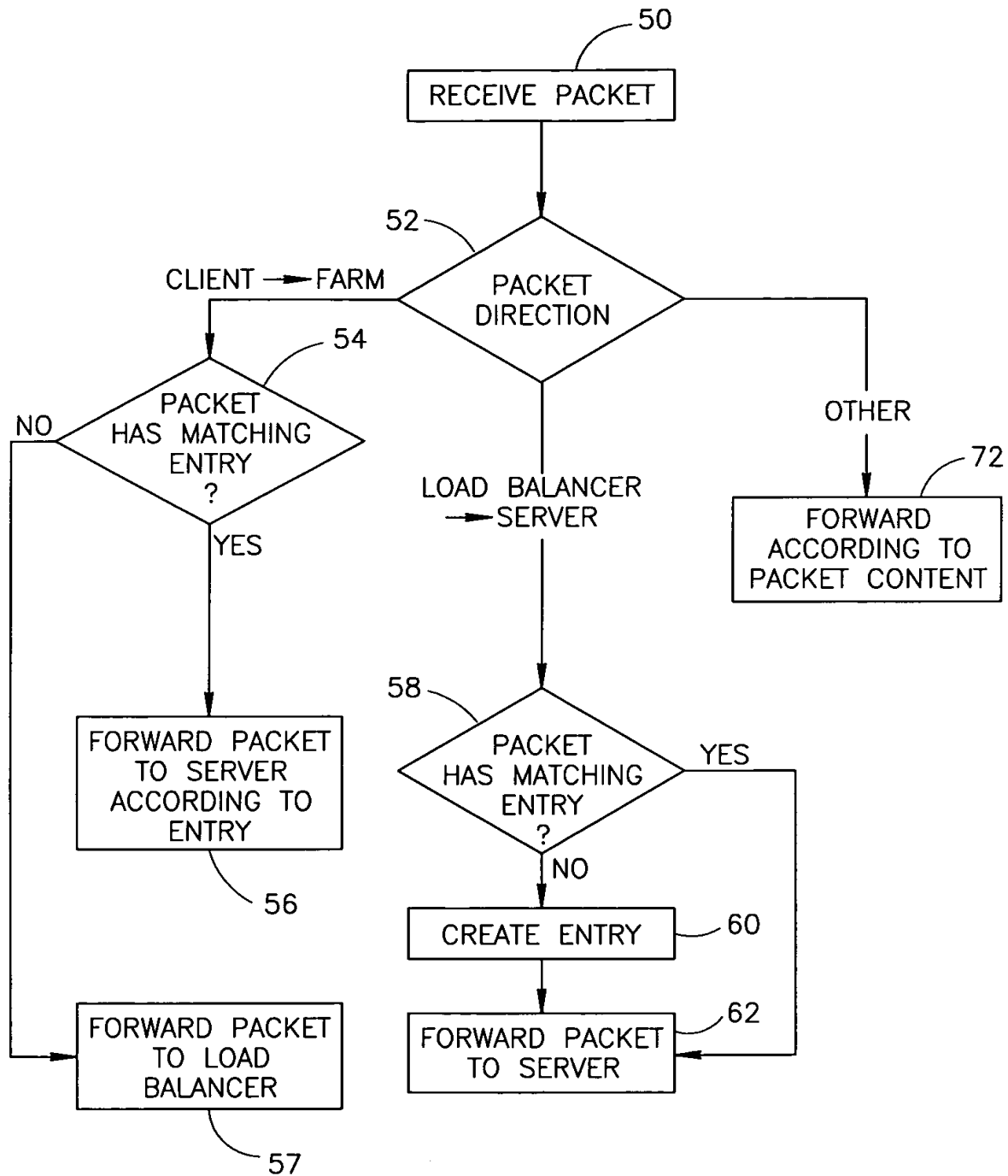


FIG.3

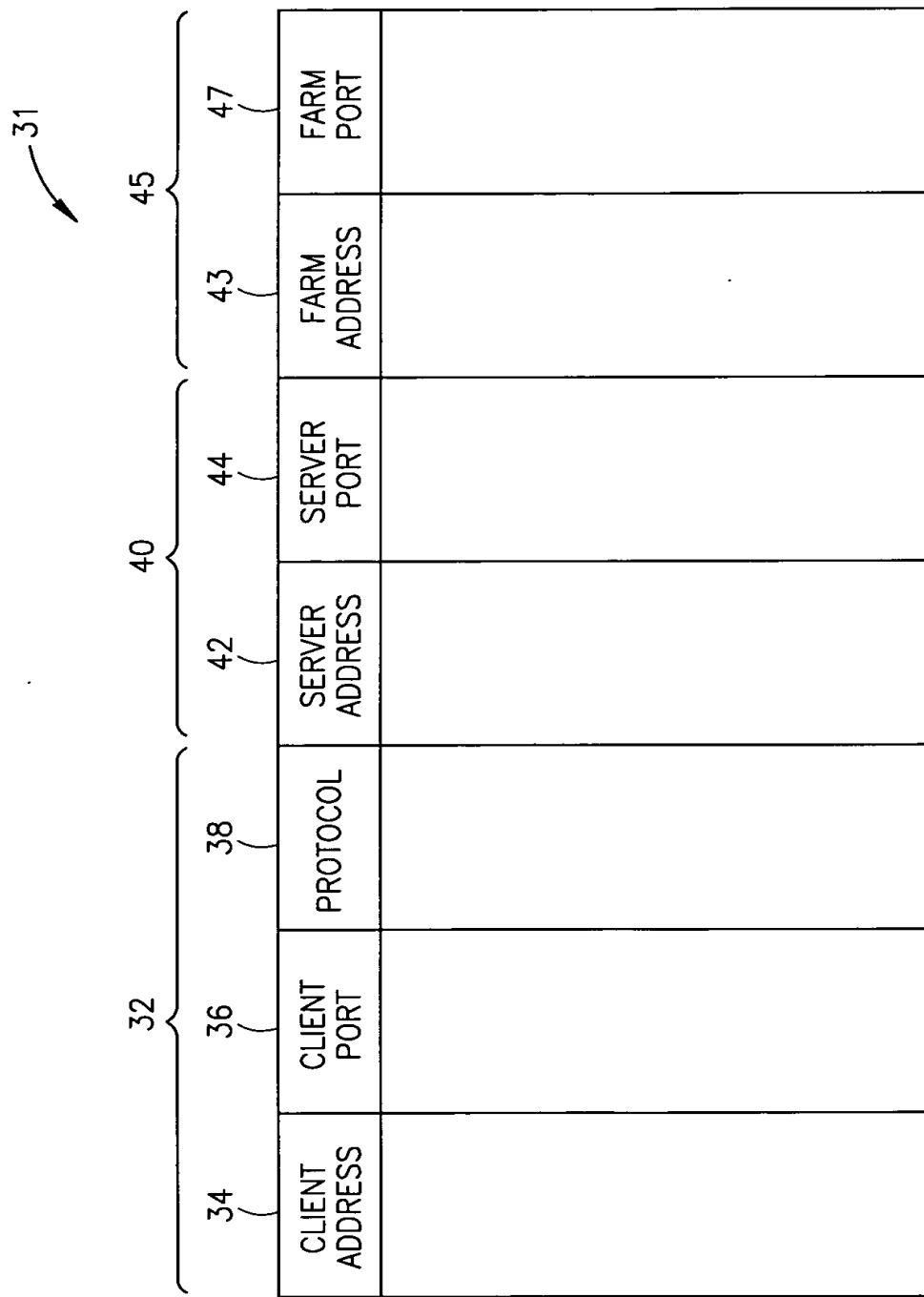


FIG. 4

```

graph TD
    50[RECEIVE PACKET] --> 52{PACKET DIRECTION}
    52 -- "CLIENT → FARM" --> 54{PACKET HAS MATCHING ENTRY ?}
    52 -- "SERVER → CLIENT" --> 64{PACKET HAS MATCHING ENTRY ?}
    52 -- "OTHER" --> 72[FORWARD ACCORDING TO PACKET CONTENT]
    54 -- YES --> 55[CHANGE IP DESTINATION ADDRESS]
    54 -- NO --> 57[FORWARD PACKET TO LOAD BALANCER]
    55 --> 56[FORWARD PACKET TO SERVER ACCORDING TO ENTRY]
    56 --> 57
    64 -- YES --> 66[CHANGE PACKET]
    64 -- NO --> 70[FORWARD PACKET TO LOAD BALANCER]
    66 --> 68[FORWARD PACKET TO CLIENT]
    68 --> 70
    52 -- "LOAD BALANCER → SERVER" --> 58{PACKET HAS MATCHING ENTRY ?}
    58 -- YES --> 62[FORWARD PACKET TO SERVER]
    58 -- NO --> 60[CREATE ENTRY]
    60 --> 62
    62 --> 70

```

FIG.5

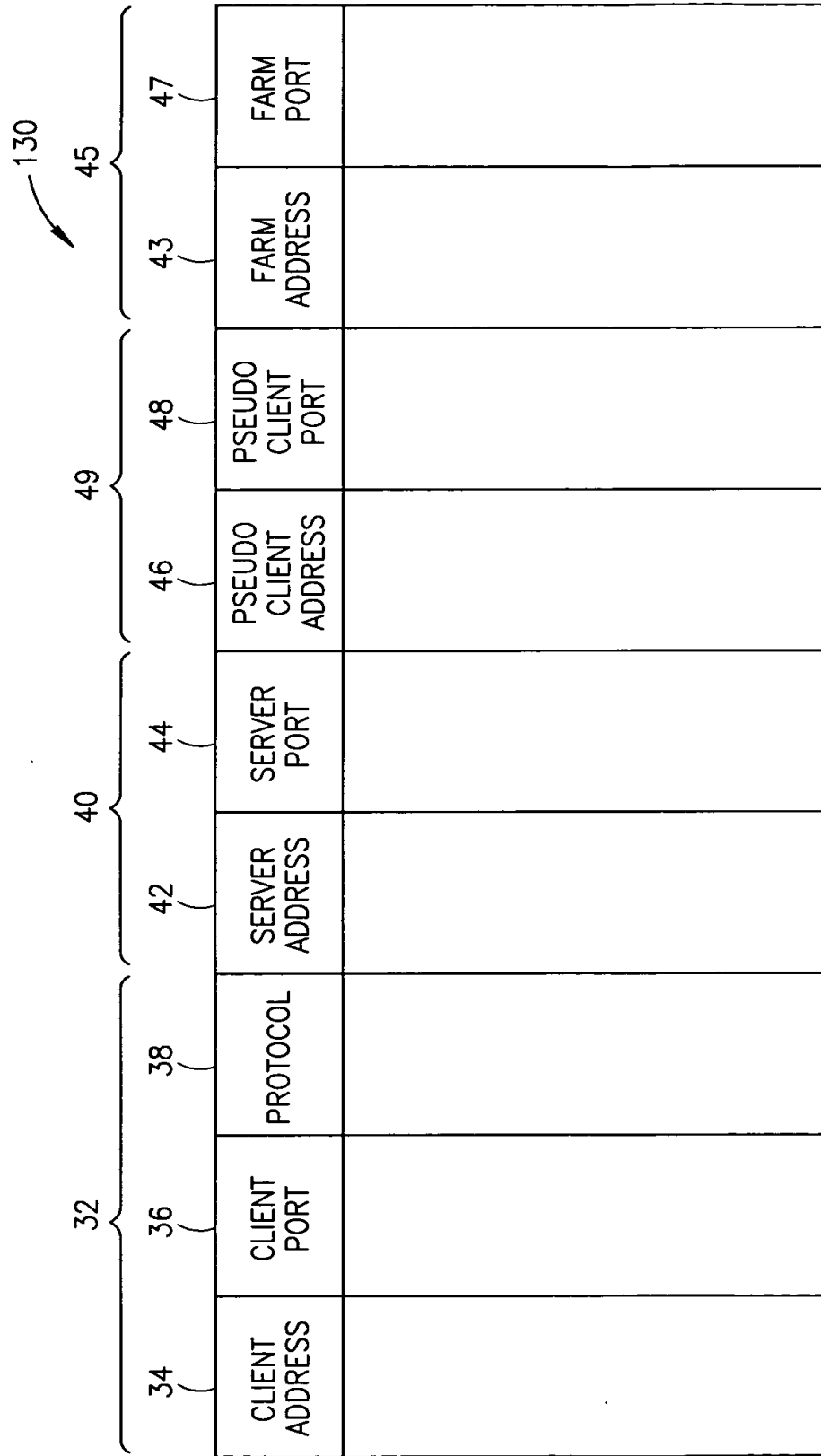


FIG.6

```

graph TD
    50[RECEIVE PACKET] --> 52{PACKET DIRECTION}
    52 -- CLIENT --> 54{PACKET HAS MATCHING ENTRY?}
    52 -- FARM --> 72[FORWARD ACCORDING TO PACKET CONTENT]
    52 -- SERVER --> 64{PACKET HAS MATCHING ENTRY?}
    52 -- LOAD BALANCER --> 58{PACKET HAS MATCHING ENTRY?}
    
    54 -- YES --> 75[CHANGE PACKET]
    75 --> 56[FORWARD PACKET TO SERVER ACCORDING TO ENTRY]
    56 --> 77[CREATE RESPECTIVE ENTRY IN TEMPORARY STORAGE]
    77 --> 57[FORWARD PACKET TO LOAD BALANCER]
    
    54 -- NO --> 72
    
    58 -- YES --> 84[CREATE ENTRY IN TABLE]
    84 --> 62[FORWARD PACKET TO SERVER]
    
    58 -- NO --> 80[SEARCH TEMPORARY STORAGE FOR MATCHING ENTRY]
    80 --> 82{FOUND MATCHING ENTRY?}
    82 -- YES --> 84
    82 -- NO --> 62
    
    64 -- YES --> 86[CHANGE SOURCE ADDRESS AND PORT]
    86 --> 88[CHANGE DESTINATION ADDRESS AND PORT]
    88 --> 68[FORWARD PACKET TO CLIENT]
    68 --> 70[FORWARD PACKET TO LOAD BALANCER]
    
    64 -- NO --> 72
  
```

62

120

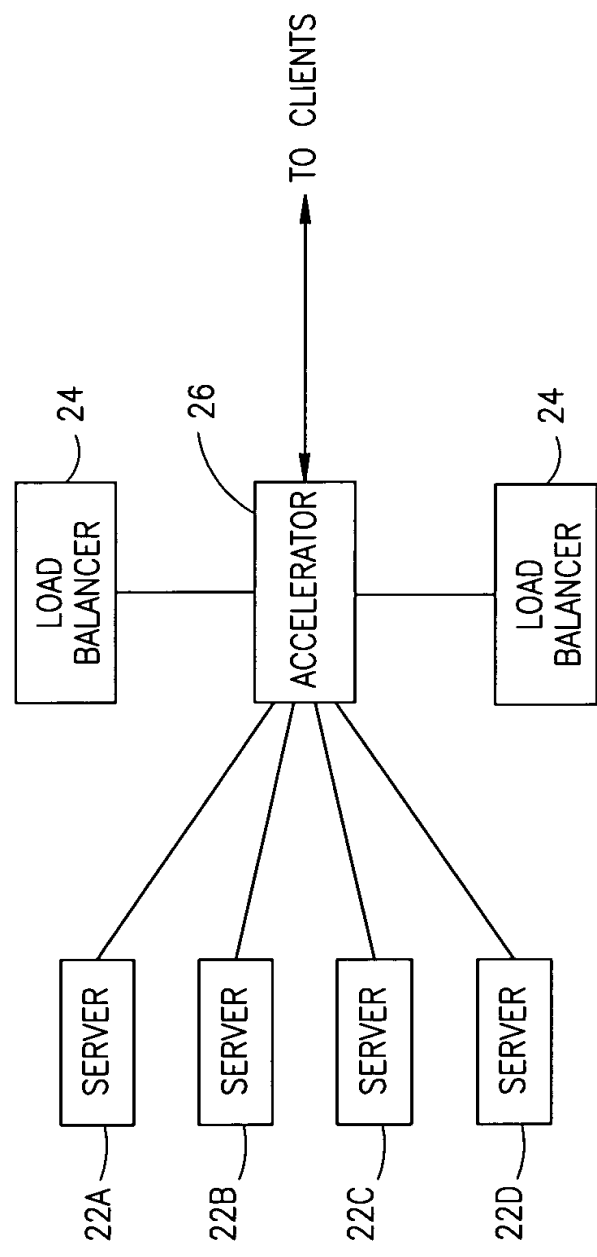


FIG.8